INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY **PCT** To: Leson, Thomas, Johannes, Alois NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY TBK-Patent EINGEGANGEN EXAMINATION REPORT Bavarianring 4-6 D-80336 München 2 6. Jan. 2004 (PCT Rule 71.1) Date of mailing (day/month/year) 23-01-2004 Applicant's or agent's file reference IMPORTANT NOTIFICATION WO 36753 International application No. International filing date (day/month/year) Priority date (day/month/year) 11-04-2003 12-04-2002 03/ 01342 PCT/IB

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

Applicant

et al

Nokia Corporation

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in som Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary axamination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/
Patent- och registreringsverket
Box 5055
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Rakel Fall

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PATENT COOPERATION TREATY

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2 6. Jan. 2004

TBK - PATENT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416							
WO 36753								
International application No.	International filing date (day/month/year	Priority date (day/month/year)						
PCT/IB03/01342	11.04.2003	12.04.2002						
International Patent Classification (IPC) or	r national classification and IPC							
H04L 29/08, H04L 1/18								
Applicant								
Nokia Corporation et al								
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This REPORT consists of a total of								
3. This report is also accompanied by								
	and to the International Bureau) a total of							
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which s	supersede earlier sheets, but which this Au	thority considers contain an amendment that goes						
beyond the dis Supplemental	sclosure in the international application as	filed, as indicated in item 4 of Box No. I and the						
b. (sent to the Internation	nal Bureau only) a total of (indicate type a	and number of electronic carrier(s))						
	, containing a sequence lis	ting and/or tables related thereto in computer						
readable form only, as Administrative Instruc	s indicated in the Supplemental Box Relatications).	ing to Sequence Listing (see Section 802 of the						
4. This report contains indications re-	lating to the following items:							
the state of the s	the report							
Box No. II Priority								
Box No. III Non-est	ablishment of opinion with regard to nove	lty, inventive step and industrial applicability						
Box No. IV Lack of	unity of invention							
Box No. V Reasone	easoned statement under Article 35(2) with regard to novelty, inventive step or industrial oplicability; citations and explanations supporting such statement							
Box No. VI Certain	Certain documents cited							
Box No. VII Certain	defects in the international application							
Box No. VIII Certain								
Date of submission of the demand Date of completion of this report								
Date of submission of the demand	Date of complet	tion of this report						
11 11 2002								
11.11.2003		15.01.2004						
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB03/01342

Box	x No. I	Basis of the report	
1.	With :	regard to the language, this report is based on the international application in the language in rwise indicated under this item.	n which it was filed, unless
	لــا	This report is based on a translation from the original language into the following language which is the language of a translation furnished for the purposes of:	,
		international search (under Rules 12.3 and 23.1(b))	
		publication of the international application (under Rule 12.4)	
		international preliminary examination (under Rules 55.2 and/or 55.3)	
2.	furnisi	n regard to the elements of the international application, this report is based on (replacement is help to the receiving Office in response to an invitation under Article 14 are referred to in this tare not annexed to this report):	nt sheets which have been report as "originally filed"
	\boxtimes	the international application as originally filed/furnished	
		the description:	
			originally filed/furnished
		pages* received by this Authority on pages*	
	Ш	the claims:	
		pages as amended (together with any st	originally filed/furnished
		pages* received by this Authority on	atement) under Article 15
		pages* received by this Authority on	
		the drawings:	
	-	pagesas o	originally filed/furnished
		pages* received by this Authority on	
		pages* received by this Authority on	
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence List	ting.
3.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, Nos.	
		the drawings, sheets/figs	_
		the sequence listing (specify):	_
		any table(s) related to the sequence listing (specify):	
4.		This report has been established as if (some of) the amendments annexed to this report and made, since they have been considered to go beyond the disclosure as filed, as indicated in the 70.2(c)).	listed below had not been the Supplemental Box (Rule
		the description, pages	
		the claims, Nos.	
		the drawings, sheets/figs	_
		the sequence listing (specify):	_
		any table(s) related to the sequence listing (specify):	
*	If item	m 4 applies, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB03/01342

Box No. V Reasoned statement under Article citations and explanations support			35(2) with regard to novelty, inventive s ng such statement	tep or industrial applicability;
1. States	ment			
N	lovelty (N)	Claims Claims	1-43	YES NO
Iı	nventive step (IS)	Claims Claims	1-43	YES NO
Is	ndustrial applicability (IA)	Claims Claims	1-43	YES NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: "Improving the performance of reliable transport protocols in mobile computing environments" by Caceres, R et al, Selected Areas in Communications, IEEE Journal on ,Volume: 13, Issue: 5, June 1995, Pages: 850 - 857

D2: "Freeze-TCP: a true end-to-end TCP enhancement mechanism for mobile environments" by Goff, T et al, IEEE INFOCOM 2000, Volume: 3 , 26-30 March 2000, Pages: 1537 - 1545

D3: WO 0197438 A

D4: LIN D et al: "TCP fast recovery strategies analysis and improvements" IEEE Infocom '98, pages 263-271 vol.1 1998, New york, USA

D5: Misra A et al: "The window distribution of idealized TCP congestion avoidance with variable packet loss" IEEE Infocom'99, pages 1564-1572, vol.3, 1999, Piscataway, NJ,USA D6: EP 0991244 A

The invention defined in claims 1-43 is not disclosed by any of these documents.

The cited prior art differ from the clamed invention in that neither of the documents describe that during hand-over, the congestion control is changed to provide faster recovery rate for the allowable number of packets.

Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-43 is novel and is considered to involve an inventive step. The invention is industrially applicable.